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1- SYMBOLS

Graphic symbols used on this manual:



THIS SYMBOL INDICATES A HOT SURFACE

Never handle the unit until at least 10 minutes have elapsed since the projector was turned off.

t_c 80°C

THIS SYMBOL INDICATES TEMPERATURE OF THE EXTERNAL SURFACE

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 80°C (176°F).



THIS SYMBOL INDICATES THE ELECTRIC SHOCK RISK

High voltage is present inside the unit. Unplug the unit prior to performing any function which involves touching the inside of the moving head.



THIS SYMBOL INDICATES PROTECTION AGAINST ELECTRICAL SHOCK

Connection must be made to a power supply system fitted with efficient earthing (Class I appliance).



THIS SYMBOL INDICATES GENERAL RISK



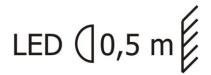
THIS SYMBOL MEANS YOU CAN PLACE THE UNIT ON NORMALLY FLAMMABLE SURFACES

Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.



THIS SYMBOL MEANS PHOTOBIOLOGICAL SAFETY

Caution: Possibly hazardous optical radiation emitted from this product. Do not stare at operating light source. May be harmful to the eyes.



THIS SYMBOL INDICATES THE MINIMUM DISTANCE FROM ILLUMINATED OBJECTS



LONG-LIFE AUTO-CHARGING BUFFER BATTERY

The projector contains a rechargeable lead-acid or lithium iron tetraphosphate battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation, use and maintenance.

The device is not for domestic use and must be installed by a qualified electrician or experienced person.

Always disconnect the device from the mains before maintenance.

The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 36 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

Overview

WONDER is the first Double-Optics Wash fixture. WONDER is an amazing step forward compared with every other LED Wash on the market. In fact, WONDER's infinite possibilities range from creating the purest most uniform color backgrounds ever seen to projecting eye-catching dynamic multicolor beams.

WONDER introduces a revolutionary architecture: a double concentric optical system. A radically new technology that achieves an unprecedented result: the purest most uniform wall wash ever seen. In traditional wash lights, when the beam is widened to illuminate a larger area, a darker spot is visible in the center.

The revolutionary optics of the WONDER, however, projects two concentric beams with independently controllable luminosity, size and color. It is therefore possible to balance the brightness of the entire beam with that of its center, resulting in unprecedented evenly diffused luminosity. You can also obtain stunning multicolor projections.

The WONDER's LED board consists of two concentric zones: a central one, and a ring divided into three distinct sections. Each of these four areas has individual control of its main features, such as luminosity, colors and effects: it's like having four LED fixtures in one. Furthermore, each zone has its own dedicated optical system, featuring different lenses and zoom ranges. This revolutionary configuration makes endless combinations possible, creating amazing effects in the air.

WONDER FPR

(D.T.S. Product Code: 03.LDR011.FFP)

• Electronic ballast 90-260V 50/60 Hz • FPR (Free Pan Rotation) • Black finish

4- TECHNICAL FEATURES

LED Technology

49 FULL COLOUR LEDs (RGBW)

Optical group

2 concentric independent high efficiency optical groups

Optical group 1: 3.5°- 52° long excursion linear motorized zoom

Optical group 2: 8°- 52° long excursion linear motorized zoom

22,000 Lux / 5 m (maximum luminosity)

Color generation

4 discrete LED areas; each area is independently controllable (luminosity, colors, effects) 16 million colors each

Wide palette of pure uniform whites with variable linear color temperature (2700°K – 8000°K)

Interface / Control / Programming

LCD graphic display + 4 soft-keys (control / management of the main parameters)

Long-life auto-charging buffer battery

RDM

ARTNET available on request

Wireless ready

Updatable internal operating system

DMX

34 (Default) or 38 DMX channels

Pan & Tilt

'FPR' system (D.T.S. patent)

Pan (limitless, in both directions); Tilt (270°)

Tri-phase stepper motor technology for ultra-fast silent movements

Pan 540°: 2.5 sec.; Tilt 270°: 1.5 sec

16-bit resolution

Selectable speed ranges

Pan / Tilt lock

Power supply

Electronic full-range AC 90-260 V 50/60 Hz

Power consumption: 850 W

Connectors

DMX: 4 XLR connectors (3-pole In and Out; 5-pole In and Out) by Neutrik Power supply: POWERCON IN and OUT (re-launch) connectors by Neutrik

Operating ambient temperature

-10° / 40°

Weight

23.4 Kg

International certifications

Certification CE: LED Class: Class 2 LED product

Dimensions

Packaging Dimensions (LxWxH)

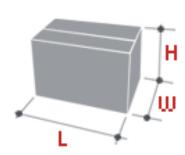
610 x 410 x 695 mm

Weight: 28 Kg

Unit Dimensions (LxWxH)

512x398x571 mm

Weight: 23,4 Kg







5- ACCESSORIES

As standard

- * 1 x POWERCON male cable connector (Code 0520P014)
- * 1 x XLR 5 Pins male cable connector (Code 0508B066)
- * 1 x XLR 5 Pins female cable connector (Code 0508B065)
- * 2 x Omega clamp with "Fast Lock" connection 1/4 turn (Code 02K00549)
- * User's manual

Optional (on request)

- "C" Clamp G100 black / professional (max. load 200Kg) (Code 0521A015)
- Aliscaf Clamp (max. capacity load 100Kg) (Code 0521A008)
- Safety wire (3mm x 60 cm), ring spring catch, max. capacity load 60Kg (Code 0521A010)

6- IMPORTANT SAFETY INFORMATION



-It is permissible to place the unit on normally flammable surfaces. Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.

-Minimum distance from the closest illuminable surface: 0,5 m. LED (10,5 m)

-Replace any blown or damaged fuses only with those of identical value (10AT). Refer to the wiring diagram if there is any doubt.

-Connect the projector to mains power via a thermal magnetic circuit breaker. It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

6.2 Prevention of electric shock:



-High voltage is present inside the unit.

Unplug the unit prior to performing any function which involves touching the inside of the moving head.

-The level of technology inherent in the WONDER requires the assistance of specialised personnel for all servicing.

Please refer to an authorised D.T.S. service centre.

-Connection must be made to a power supply system fitted with efficient earthing (Class I appliance).

-A good earth connection is essential for proper functioning of the projector.

-Never connect the unit without proper earth connection.

-The fixture should be located in places with a good air ventilation.

6.3 Safety:



- -The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.
- -Always use a second safety cable to sustain the weight of the unit in case of the failure of the main fixing point.
- -The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 80°C (176°F). t_c 80°C

Never handle the unit until at least 10 minutes have elapsed since the projector was turned off.

-Never install the fixture in an enclosed area lacking sufficient air flow.

The ambient temperature should not exceed 40°C.

-Caution: Possibly hazardous optical radiation emitted from this product. Do not stare at operating light source. May be harmful to the eyes.



6.4 Level of protection against the penetration of solid and liquid objects:

-The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP20.



6.5 Long-life auto-charging buffer battery:

-The projector contains a rechargeable lead-acid or lithium iron tetraphosphate battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

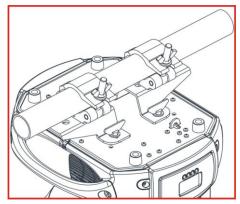


7- VOLTAGE AND FREQUENCY

The WONDER with electronic ballast can operate at 90-260V 50 or 60 Hz.

8- INSTALLATION

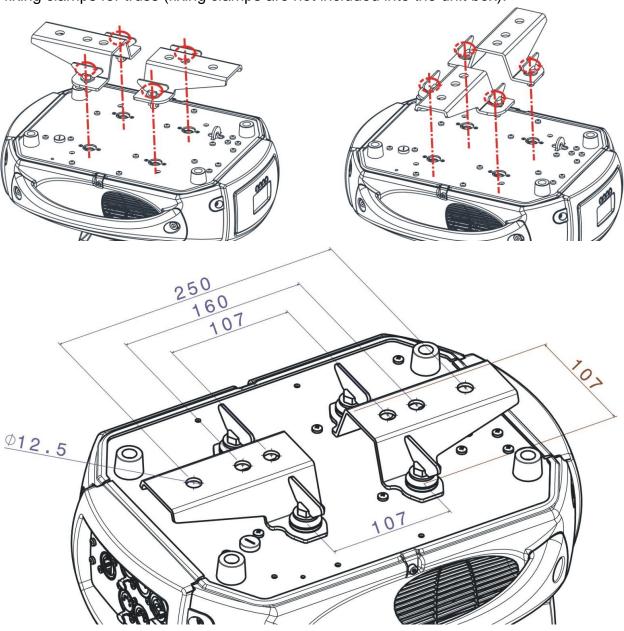
WONDER may be either floor or ceiling mounted. For floor mounting installations, the WONDER is supplied with four rubber mounting feet on the base. For ceiling mounted installations, we reccomend the use of appropriate clamps to fix the unit to the mounting surface.



The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it.

The structure should also be sufficiently rigid so as not to move or shake whilst the WONDER is moving.

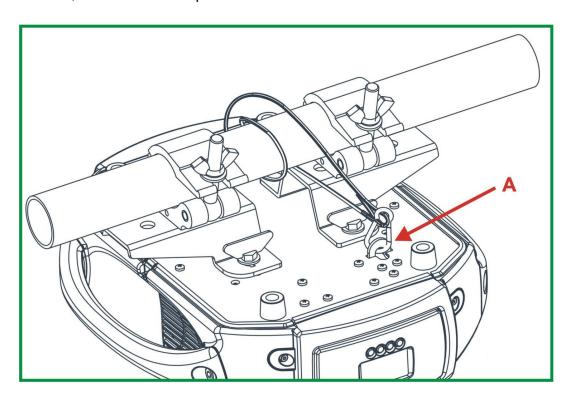
Four 1/4 turn Fast Locks connections placed in the base of the unit allow to hang the WONDER by using the two omega clamps (provided in the box) in conjunction with fixing clamps for truss (fixing clamps are not included into the unit box).



8.1- Safety cable

We recommend the use of a safety cable or chain connected to the WONDER and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail.

Make sure that the iron cable or chain can bear the weight of the entire unit. You may attach the safety chain/cord to the attachment point (A) located on the base of the fixture, as shown in the picture below.



8.2 Protection against liquids

The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid.

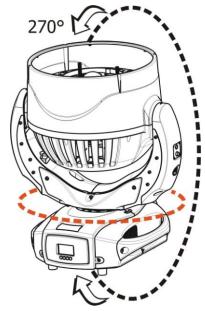
The proper unit functioning would be compromised should this occur.

8.3- Movement

Unlimited Pan rotation; Tilt 270° (1,5 sec.) . Do not place any obstructions in the path of the projector's movement.



Do not place any object in the path of the projector's movement



Free Pan Rotation ('FPR') (03.LDR011.FFP)

8.4- Risk of fire



Each fixture produces heat and must be installed in a well-ventilated place.

It is permissible to place the unit on normally flammable surfaces. Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.



Minimum distance from the closest illuminable surface: 0,5 m. LED (0,5 m)

8.5- Forced ventilation

You will note, on inspection, that the unit features various air inlets and cooling fans located on both the base and head of the fixture.

These should, under no circumstances, be blocked or obstructed whilst the projector is in operation. Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

8.6- Ambient temperature

The projector should never be installed in places that lack a constant air flow. The ambient temperature should NOT exceed 40°C.

9- MAINS CONNECTION

WONDER with electronic ballast operates at 90-260V 50-60 Hz.

Prior to connecting the unit to your mains supply, ensure that the model in your possession correctly matches the mains supply available.

For connection purposes, ensure that your plug is capable of supporting 4 amps at 230 VOLT, or 10 amps at 90 VOLT each unit connected.

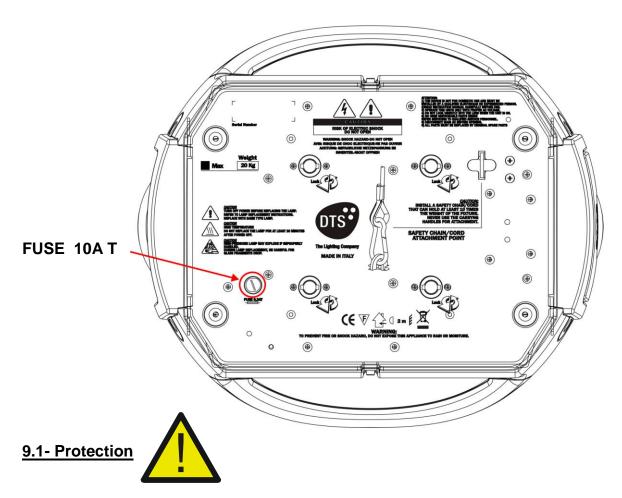
Strict adherence to regulatory norms is strongly recommended.

MAINS AC OUTPUT 90-260V 50/60 Hz (16A Max)

Max 4 WONDER Units @ 230V Max 2 WONDER Units @ 120V

(03.LDR011.FFP)

MAINS AC INPUT 90-260V 50/60 Hz



The use of a thermal magnetic circuit breaker is recommended for each WONDER. It is, moreover, recommended to protect the supply lines of the projectors by using Appropriately sized residual current devices.

Connection must be made to a power supply system fitted with efficient earthing (Class I appliance). A good earth connection is essential for the correct operation of the projector.

10- DMX SIGNAL CONNECTION

The unit operates using the digital DMX 512 signal.

Connection between the mixer and the projector or between projectors must be carried out using a two pair screened Ø 0.5 mm cable and a XLR 5 or 3 pins connector.

Ensure that the conductors do not touch each other.

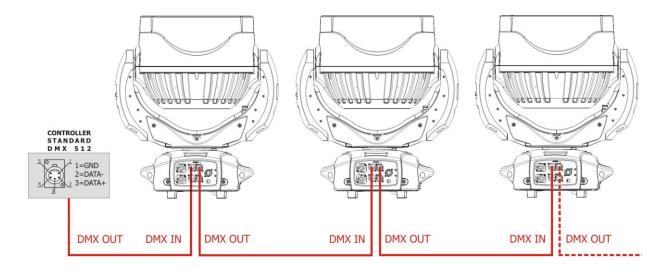
Do not connect the cable ground to the XLR chassy.

The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first projector to the DMX IN plug of the second one.

This way, all the projectors are cascade connected.

NB. <u>If the display showing the DMX address flashes, then one of the following errors</u> has occurred:

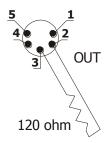
- DMX signal not present
- DMX address not valid
- DMX reception problem



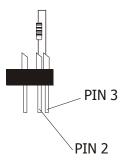
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor between pin 2 and 3.

The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



10.1-DMX Addresses

MAX can be used in 2 different DMX modes: 34 DMX control channels (Default) or 38 DMX control channels.

Here below is described the DMX channels addressing for the controller when WONDER is set to 34 and 38 DMX control channels:

34 channels mode (Default)

Projector 1	A001	
Projector 2	A035	If you want to select the next projector, just add "34"
Projector 3	A069	
	A	
projector 6	A171	
38 channels	<u>mode</u>	
Projector 1	A001	
Projector 2	A039	If you want to select the next projector, just add "38"
Projector 3	A077	
	A	
projector 6	A191	
. ,		

10.2-Selecting the DMX address

- 1) Press the UP-DOWN key until you reach the required DMX channel. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
- 2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now setted to the new DMX address.

TRICKS:

If you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

11- FIRMWARE UPDATING

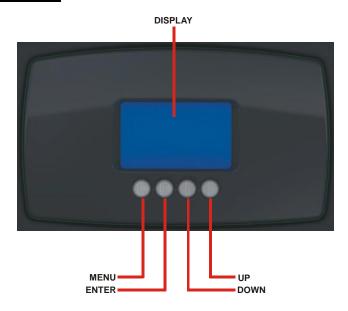
To update the software version of the WONDER you need:

- "D.T.S. Firmware Upgrade Utility" program installed on the PC
- D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008)
- USB-DMX Driver for the D.T.S. RED BOX interface.
- Latest firmware release available for WONDER unit

Updating the software version.

Please follow the procedure below to perform the update:

- 1. Install the D.T.S. RED BOX USB-DMX driver on the PC you will use to update the unit software.
- 2. Connect the D.T.S. RED BOX interface to the PC by using a USB cable.
- 3. Connect the D.T.S. RED BOX interface to the fixture by using a DMX cable.
- 4. Send the new software version into the unit by using "D.T.S Firmware Upgrade Utility" program.

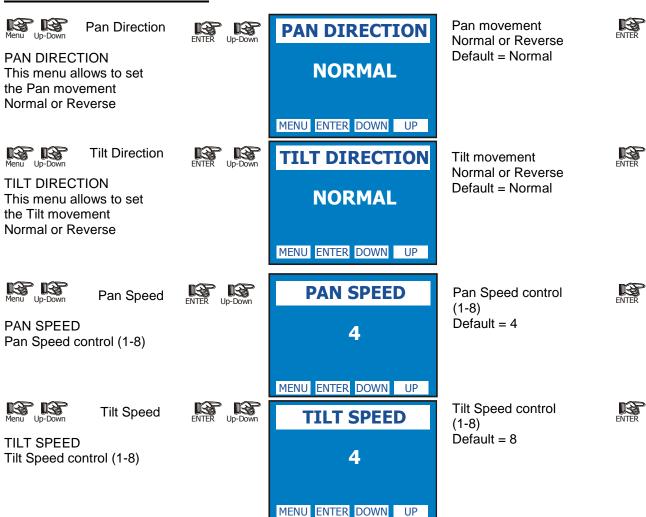


DISPLAY FUNCTIONS

The WONDER display panel shows all the available functions. Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 used to control it. Carefully follow the instructions below before carrying out any variations or selections.

NOTE: the symbol shows which key has to be pushed to obtain the desired function.

Software Version: 19-20-22





Display





DISPLAY FLIP / STAND BY / CONTRAST

Display Flip:

Reverses display's reading depending on the mounting position (on the ground or suspended).

Display Standby:

To turn off the display (after 5 seconds) or leave it always on.

Display Contrast:

Display contrast regulation (1-40)

DISPLAY

FLIP

ON THE GROUND

MENU ENTER DOWN UP

Display Flip ON THE GROUND (Default) SUSPENDED



DISPLAY

STANDBY

OFF

MENU ENTER DOWN UP

Display Standby OFF = Display Standby disabled (Default) ON = Display goes OFF after 5 seconds



DISPLAY

CONTRAST

25

MENU ENTER DOWN UP

Display Contrast 1-40 (Default = 25)

DMX Mode

38 channels





DMX MODE

To select DMX mode:

DMX Mode





DMX MODE

34 CHANNELS

MENU ENTER DOWN UP





Menu Up-Down

Reset

34 channels (Default) or 38 channels







RESET

Reset via DMX ENABLED / DISABLED and unit motors reset



ENABLED = Reset via DMX enabled (Default) DISABLED = Reset via DMX disabled NOW = Unit motors reset





Wireless





WIRELESS

OFF

MENU ENTER DOWN UP

ON = Enabled OFF = Disabled (Default) UNLINK = Log out

(Wireless module on request)





Wireless DMX enabled / disabled.

(Wireless module on request)







LED





SMOOTH: This menu allows to select the value of the delay (in milliseconds) for RGBW and Dimmer channels reaction to DMX or program variation. 4 = 25 ms delay (fast response) 20 = 250 ms delay (slow response)

GAMMA CORRECTION

This menu allows to select between Linear current output or Quadratic current output for LEDs.

OUTPUT FREQUENCY

This menu allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings.

BOOST

This menu allows to increase the LEDs current from 800mA to 1000mA.



SMOOTH VALUE Range = 0 - 20Default = 4



GAMMA CORRECTION LED LINE = Linear current output QUAD = Quadratic light **GAMMA CORR.** output (Default) **QUAD**



MENU ENTER DOWN UP

OUTPUT FREQUENCY Range: 600 Hz - 10 KHz Default = 600 Hz



BOOST OFF = 800mA (Default) ON = 1000 mA



System Info





SYSTEM INFO

UNIT LIFE: 0124H LED: R19 ZOOM: R20 PT: R22 MODEL: WONDER FPR MENU ENTER DOWN UP SYSTEM INFO Unit life time; LED Driver, Zoom and Pan&Tilt cards software version and unit model





Temperature







MAX CURR. CENTER: 041°C SECTOR 1: 046°C 1000 MA SECTOR 2: 049°C SECTOR 3: 048°C CPU: 049°C MENU ENTER DOWN UP

4 LEDs panels + CPU card temperature and LEDs max current value





Reserved



RESERVED (Code = 100)Pan lock-Tilt lock Pan free-Tilt free Lock Detector Reboot Exit To Main





MENU ENTER DOWN UP

LOCK DETECTOR

OFF

MENU ENTER DOWN UP

REBOOT

MENU ENTER DOWN UP

Pan Lock = Lock the Pan to the desired value Tilt Lock = Lock the Tilt to the desired value Pan Free = Remove power to Pan motor Tilt Free = Remove power to Tilt motor

Lock Detector OFF = Default Lock Detector ON: This function lets the user to activate the Lock detector on Pan and Tilt. When Lock detector is set to ON, the unit start the Pan&Tilt motors reset normally, but if for any reason there is something blocking the movement for Pan&Tilt motors during the initial reset (example unit into the fly case and power connected), it automatically will stop to reset Pan&Tilt motors after 5 seconds from the startup and a warning message (Pan locked-Tilt locked) will appear on unit display.

Reboot = Unit Reboot without needing of turning OFF the unit

Exit To Main = Exit from Reserved menu



Default





DEFAULT To restore main settings



RESTORE MAIN SETTINGS

PRESS ENTER TO CONFORM PRESS MENU TO CANCEL

MENU ENTER DOWN UP

Default

To restore main settings



13- PERIODIC CLEANING

13.1- Front lenses screen glass

The dust can reduce the luminous output substantially.

Regularly clean the front lenses screen glass using a soft cotton cloth, dampened with a specialist lens cleaning solution.

13.2- Fans and air passages

The fans and air passages must be cleaned approximately every 6 weeks.

This periodic cleaning will depend of course, on the conditions in which the projector is operating.

Suitable instruments for performing this type of maintenance are a brush and a common vacuum cleaner or an air compressor.

If necessary, clean the fans and air passages more frequently.

14- PERIODIC CONTROLS





Periodically check all mechanical parts, replacing them if necessary.

Electrical components

Check all electrical components for correct earthing and proper connection of all connectors, refastening if necessary.



Fuse replacement

Locate the fuse, which protects the electronics, in the base of the WONDER. Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type (10AT) if necessary.



15- DMX PROTOCOL

34 CHANNELS MODE

- 1 PAN msb
- 2 PAN Isb
- 3 TILT msb
- 4 TILT Isb
- 5 SPEED MOVEMENT
- 6 PAN FPR
- 7 SHUTTER
- 8 DIMMER
- 9 RED CENTER
- 10 GREEN CENTER
- 11 BLUE CENTER
- 12 WHITE CENTER
- 13 RED SECTOR 1
- 14 GREEN SECTOR 1
- 15 BLUE SECTOR 1
- 16 WHITE SECTOR 1
- 17 RED SECTOR 2
- 18 GREEN SECTOR 2
- 19 BLUE SECTOR 2
- 20 WHITE SECTOR 2
- 21 RED SECTOR 3
- 22 GREEN SECTOR 3
- 23 BLUE SECTOR 3
- 24 WHITE SECTOR 3
- 25 WHITE PRE-PROGRAMMED
- 26 CTC
- 27 MACROS
- 28 MACROS SPEED CONTROL
- 29 FUNCTIONS
- 30 ZOOM CENTRE / GLOBAL ZOOM
- 31 ZOOM SECTORS
- 32 ZOOM MODE
- 33 SERVICE
- 34 RESET

DMX CHANNEL	1	Parameter: PAN msb
DMX CHANNEL	2	Parameter: PAN lsb
DMX CHANNEL	3	Parameter: TILT msb
DMX CHANNEL	4	Parameter: TILT lsb

DMX CHANNEL	5	Parameter: SPEED MOVEMENT							
DMX value		Function							
000-010	Standard	l							
011-025	Fast mov	Fast movement							
026-127	Vector m	node from fast to slow							
128-247	Variable	e time reaction to dmx signal (fast to slow)							
248-255	Silent m	novement							

DMX CHANNEL	6	Parameter: PAN FPR	
DMX value		Fun	ction
000-010	Position	mode 540° (standard pa	ath)
011-020	Position		
021-030	Position	mode 720° (2 turns)	
031-040	Position	mode 1080° (3 turns)	
041-050	Position	mode 1440° (4 turns)	
051-060	Position	mode 1800° (5 turns)	
061-070		mode 2160° (6 turns)	
071-080		mode 2520° (7 turns)	
081-090	Position	mode 2880° (8 turns)	
091-100		mode 3240° (9 turns)	
101-110		mode 3600° (10 turns)	
111-120	Position	mode 360° smart path	
121-182	Forward	pin rotation speed from	m max to min
183-193	Stop		
194-255	Reverse	pin rotation speed from	m min to max

DMX CHANNEL	7 Parameter: SHUTTER
DMX value	Function
000-009	Black-out
010-019	Open
020-029	Black-out
030-034	Strobe speed 1 (1 flash/sec)
035-039	Strobe speed 2 (2 flash/sec)
040-044	Strobe speed 3 (3 flash/sec)
045-049	Strobe speed 4 (4 flash/sec)
050-054	Strobe speed 5 (5 flash/sec)
055-059	Strobe speed 6 (6 flash/sec)
060-064	Strobe speed 7 (7 flash/sec)
065-069	Strobe speed 8 (8 flash/sec)
070-074	Strobe speed 9 (10 flash/sec)
075-079	Strobe speed 10 (12 flash/sec)
080-084	Strobe speed 11 (14 flash/sec)
085-089	Strobe speed 12 (16 flash/sec)
090-094	Strobe speed 13 (18 flash/sec)
095-099	Strobe speed 14 (20 flash/sec)
100-104	Strobe speed 15 (22 flash/sec)
105-109	Strobe speed 16 (25 flash/sec)
110-114	Strobe speed 17 (30 flash/sec)
115-119	Strobe speed 18 (35 flash/sec)
120-149	Pulse UP (42.6 s - 120 ms)
150-179	Pulse DOWN (42.6 s - 120 ms)
180-191	Random strobe effect from slow to fast (all zones together)
	Dimmer, Red, Green, Blue, White channels active
192-203	Full independent random strobe effect from slow to fast (all
	zones together)
	Dimmer, Red, Green, Blue, White channels disabled
204-215	Random strobe effect from slow to fast (random zones)
216-229	Random strobe effect from slow to fast (random zone + random
	strobe)
230-255	Open

DMX CHANNEL	8	Parameter: DIMMER
DMX value		Function
000-007	Black-ou	t
008-255	Proporti	onal dimmer

DMX CHANNEL	9	Parameter: RED CENTRE
DMX CHANNEL	10	Parameter: GREEN CENTRE
DMX CHANNEL	11	Parameter: BLUE CENTRE
DMX CHANNEL	12	Parameter: WHITE CENTRE
DMX CHANNEL	13	Parameter: RED SECTOR 1
DMX CHANNEL	14	Parameter: GREEN SECTOR 1
DMX CHANNEL	15	Parameter: BLUE SECTOR 1
DMX CHANNEL	16	Parameter: WHITE SECTOR 1
DMX CHANNEL	17	Parameter: RED SECTOR 2
DMX CHANNEL	18	Parameter: GREEN SECTOR 2
DMX CHANNEL	19	Parameter: BLUE SECTOR 2
DMX CHANNEL	20	Parameter: WHITE SECTOR 2
DMX CHANNEL	21	Parameter: RED SECTOR 3
DMX CHANNEL	22	Parameter: GREEN SECTOR 3
DMX CHANNEL	23	Parameter: BLUE SECTOR 3
DMX CHANNEL	24	Parameter: WHITE SECTOR 3
DMX value		Function
000-255	Proportio	onal colour

DMX CHANNEL	25	Parameter: WHITE PRE-PROGRAMMED							
DMX value		Function							
000-055	No functi	Lon							
056-105	Full (red	Full (red-green-blue at full)							
106-155	White DTS								
156-205	Custom wh	nite create (RGB levels selectable by DMX)							
206-255	White CTO	C (channel 26 CTC enabled)							

DMX CHANNEL	26	Parameter: CTC (Colour temperature correction)
IF CHANNEL 25 W	HITE PRE	-PROGRAMMED = WHITE CTC (DMX range value 206-255)
DMX value		Function
000-255	Linear co	atrol temperature correction (from 2700°K to 8000°K)

DMX CHANNEL	27	Parameter:	MACROS				
DMX value				Function	n		
000-014	No functi	ion					
015-024	Macro 1	(static)					
025-034	Macro 2	(static)					
035-044	Macro 3	(static)					
045-054	Macro 4	(static)					
055-064	Macro 5	(static)					
065-074	Macro 6	(static)					
075-084	Macro 7	(static)					
085-094	Macro 8	(static)					
095-104	Macro 9	(static)					
105-114	Macro 10	(static)					
115-124	Macro 11	(static)					
125-134	Macro 12	(static)					
135-144	Macro 13	(static)					
145-154	Macro 14	, ,					
155-164	Macro 15	(static)					
165-174	Macro 16	(static)					
175-184	Rainbow e				(speed	by channel	28)
185-189		ors dynamic e:			(speed	by channel	28)
190-194	All secto	ors dynamic e:	ffect 2		(speed	by channel	28)
195-199	All secto	ors dynamic e:	ffect 3		(speed	by channel	28)
200-204		ors dynamic e			· ·	by channel	
205-209		ors dynamic e				by channel	
210-214		ors dynamic e				by channel	
215-219		ors dynamic e				by channel	
220-224		ors dynamic e			· ·	by channel	
225-229		ors dynamic e				by channel	
230-234		ors dynamic e				by channel	
235-239		ors dynamic e		EMPT		by channel	
240-244		ors dynamic e		EMPT		by channel	
245-249		ors dynamic e			, <u>+</u>	by channel	,
250-255	All secto	ors dynamic e	ffect 14		(speed	by channel	28)

DMX CHANNE	EL	28	Para	ametei	î: :	MACR	OS SP	EED CON	TROL				
Active onl	Ly if	MACI	ROS (channe	el	27 b	etwee	n DMX v	alues	175-2	255		
DMX value	alue Function												
	Rainbo	v ef:	fect	CH27 fi	com	175	to 184	Dynamic	Effect	CH27	from 1	.85 to	255
000-014	Rainbo	ow e	ffect	Speed	1	(4	sec)	Dynamic	Effect	Speed	1 (0,1	sec)
015-029	Rainb	ow e	ffect	Speed	2	(6	sec)	Dynamic	Effect	Speed	2 (0,2	sec)
030-044	Rainb	ow e	ffect	Speed	3	(8	sec)	Dynamic	Effect	Speed	3 (0,3	sec)
045-059	Rainbo	ow e	ffect	Speed	4	(10	sec)	Dynamic	Effect	Speed	4 (0,4	sec)
060-074	Rainbo	ow e	ffect	Speed	5	(15	sec)	Dynamic	Effect	Speed	5 (0,5	sec)
075-089	Rainb	ow e	ffect	Speed	6	(20	sec)	Dynamic	Effect	Speed	6 (0,6	sec)
090-104	Rainb	ow e	ffect	Speed	7	(30	sec)	Dynamic	Effect	Speed	7 (0,8	sec)
105-119	Rainb	ow e	ffect	Speed	8	(45	sec)	Dynamic	Effect	Speed	8 (1	sec)
120-134	Rainb	ow e	ffect	Speed	9	(60	sec)	Dynamic	Effect	Speed	9 (1,5	sec)
135-149	Rainb	ow e	ffect	Speed	10	(90	sec)	Dynamic	Effect	Speed	10 (2	sec)
150-164	Rainb	ow e	ffect	Speed	11	(120	sec)	Dynamic	Effect	Speed	11 (3	sec)
165-179	Rainb	ow e	ffect	Speed	12	(150	sec)	Dynamic	Effect	Speed	12 (5	sec)
180-194	Rainbo	ow e	ffect	Speed	13	(180	sec)	Dynamic	Effect	Speed	13 (7	sec)
195-209				Speed		(210	sec)	Dynamic	Effect	Speed	14 (10	sec)
210-224				Speed				Dynamic				15	sec)
225-239	Rainb	ow e	ffect	Speed	16	(270	sec)	Dynamic	Effect	Speed	16 (sec)
240-255	Rainb	ow e	ffect	Speed	17	(300	sec)	Dynamic	Effect	Speed	17 (30	sec)

DMX CHANNEL	29	Parameter:	FUNCTIONS	(Recall,	Create,	Store	custom white))
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IF CHANNEL 25 WHITE PRE-PROGRAMMED = CUSTOM WHITE (DMX range value 156-205)

II CIMMINDE 25 V	Willia The Thousands Cobion willia (bin range value 190 200)
DMX value	Function
000-079	Custom White Recall
080-160	Custom White Create (Enable custom white creation)
161-255	Custom White Store (Store the custom white created)

DMX CHANNEL	30	Parameter: ZOOM CENTRE
IF CHANNEL 32 Z	OOM MODE	= INDEPENDENT ZOOM CONTROL (DMX range value 000-127)
DMX value		Function
000-255	ZOOM CENT	RE Linear control from narrow to wide (3.5° - 52°)

IF CHANNEL 32 ZOOM MODE = GLOBAL ZOOM CONTROL (DMX range value 128-255)

	DMX value	Function
	000-255	GLOBAL ZOOM (Zoom centre + Zoom sectors) Linear control from narrow to wide
L		(8° - 52°)

DMX CHANNEL	31	Parameter: ZOOM SECTORS
IF CHANNEL 32 Z	ADDM MODE	E = INDEPENDENT ZOOM CONTROL (DMX range value 000-127)
DMX value		Function
000-255	ZOOM SECT	ORS Linear control from narrow to wide (8° - 52°)

IF CHANNEL 32 ZOOM MODE = GLOBAL ZOOM CONTROL (DMX range value 128-255)

DMX value	Function
000-255	No function

DMX CHANNEL	32	Parameter: ZOOM MODE
DMX value		Function
000-127	Independe	nt Zoom control: Zoom centre ch30 and Zoom sectors ch31 enabled
128-255	Global Zo	om control on ch30 enabled; Zoom sectors ch31 disabled

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To activate following functions, stop in DMX value for at least 5 seconds. FUNCTION channel ch29 must be at range 161-255.

WHITE PRE-PROGRAMMED channel ch25 must be at range 000-055.

Corresponding DISPLAY MENU settings, will be overwritten.

	DISPLAI MENO Sectings, will be overwritten.				
DMX value	Function				
000-014	No Function				
015-024	SMOOTH OFF				
025-034	SMOOTH 4				
035-044	SMOOTH 8				
045-054	SMOOTH 15				
055-064	SMOOTH 20				
065-074	GAMMA CORRECTION QUADRATIC				
075-084	GAMMA CORRECTION LINEAR				
085-094	OUTPUT FREQUENCY 610 Hz				
095-104	OUTPUT FREQUENCY 1500 Hz				
105-114	OUTPUT FREQUENCY 3000 Hz				
115-124	OUTPUT FREQUENCY 6000 Hz				
125-134	OUTPUT FREQUENCY 9000 Hz				
135-144	BOOST ON				
145-154	BOOST OFF				
155-164	WIRELESS ON				
165-174	WIRELESS UNLINK				
175-184	WIRELESS OFF				
185-194	PAN NORMAL				
195-204	PAN REVERSE				
205-214	TILT NORMAL				
215-224	TILT REVERSE				
225-234	RESERVED				
235-244	Fans Speed Studio Mode (not yet implemented)				
245-255	Fans Speed Live Mode (not yet implemented)				

DMX CHANNEL	34	Parameter: RESET	
DMX value		Function	
000-015	No Functi	on	
016-075	PAN-TILT reset		
076-135	ZOOM CENTRE reset		
136-200	ZOOM SECT	CORS reset	
201-239	ZOOM CENT	TRE + ZOOM SECTORS reset	
240-255	TOTAL reset		

15- DMX PROTOCOL

38 CHANNELS MODE

- 1 PAN msb
- 2 PAN Isb
- 3 TILT msb
- 4 TILT Isb
- 5 SPEED MOVEMENT
- 6 PAN FPR
- 7 SHUTTER
- 8 DIMMER
- 9 RED CENTER
- 10 GREEN CENTER
- 11 BLUE CENTER
- 12 WHITE CENTER
- 13 RED SECTOR 1
- 14 GREEN SECTOR 1
- 15 BLUE SECTOR 1
- 16 WHITE SECTOR 1
- 17 RED SECTOR 2
- 18 GREEN SECTOR 2
- 19 BLUE SECTOR 2
- 20 WHITE SECTOR 2
- 21 RED SECTOR 3
- 22 GREEN SECTOR 3
- 23 BLUE SECTOR 3
- 24 WHITE SECTOR 3
- 25 WHITE PRE-PROGRAMMED
- 26 CTC
- 27 MACROS
- 28 MACROS SPEED CONTROL
- 29 FUNCTIONS
- 30 ZOOM CENTRE / GLOBAL ZOOM
- 31 ZOOM SECTORS
- 32 ZOOM MODE
- 33 SERVICE
- 34 RESET
- 35 SHUTTER CENTRE
- 36 SHUTTER SECTOR 1
- 37 SHUTTER SECTOR 2
- 38 SHUTTER SECTOR 3

DMX CHANNEL	1	Parameter: PAN msb
DMX CHANNEL	2	Parameter: PAN lsb

DMX CHANNEL	3	Parameter: TILT msb
DMX CHANNEL	4	Parameter: TILT 1sb

DMX CHANNEL	5	Parameter: SPEED MOVEMENT				
DMX value		Function				
000-010	Standard					
011-025	Fast mov	ast movement				
026-127	Vector m	ector mode from fast to slow				
128-247	Variable	e time reaction to dmx signal (fast to slow)				
248-255	Silent m	novement				

DMX CHANNEL	6 Parameter: PAN FPR
DMX value	Function
000-010	Position mode 540° (standard path)
011-020	Position mode 360° (1 turn)
021-030	Position mode 720° (2 turns)
031-040	Position mode 1080° (3 turns)
041-050	Position mode 1440° (4 turns)
051-060	Position mode 1800° (5 turns)
061-070	Position mode 2160° (6 turns)
071-080	Position mode 2520° (7 turns)
081-090	Position mode 2880° (8 turns)
091-100	Position mode 3240° (9 turns)
101-110	Position mode 3600° (10 turns)
111-120	Position mode 360° smart path
121-182	Forward spin rotation speed from max to min
183-193	Stop
194-255	Reverse spin rotation speed from min to max

DMX CHANNEL	7 Parameter: SHUTTER
DMX value	Function
000-009	Black-out
010-019	Open
020-029	Black-out
030-034	Strobe speed 1 (1 flash/sec)
035-039	Strobe speed 2 (2 flash/sec)
040-044	Strobe speed 3 (3 flash/sec)
045-049	Strobe speed 4 (4 flash/sec)
050-054	Strobe speed 5 (5 flash/sec)
055-059	Strobe speed 6 (6 flash/sec)
060-064	Strobe speed 7 (7 flash/sec)
065-069	Strobe speed 8 (8 flash/sec)
070-074	Strobe speed 9 (10 flash/sec)
075-079	Strobe speed 10 (12 flash/sec)
080-084	Strobe speed 11 (14 flash/sec)
085-089	Strobe speed 12 (16 flash/sec)
090-094	Strobe speed 13 (18 flash/sec)
095-099	Strobe speed 14 (20 flash/sec)
100-104	Strobe speed 15 (22 flash/sec)
105-109	Strobe speed 16 (25 flash/sec)
110-114	Strobe speed 17 (30 flash/sec)
115-119	Strobe speed 18 (35 flash/sec)
120-149	Pulse UP (42.6 s - 120 ms)
150-179	Pulse DOWN (42.6 s - 120 ms)
180-191	Random strobe effect from slow to fast (all zones together)
	Dimmer, Red, Green, Blue, White channels active
192-203	Full independent random strobe effect from slow to fast (all
	zones together)
	Dimmer, Red, Green, Blue, White channels disabled
204-215	Random strobe effect from slow to fast (random zones)
216-229	Random strobe effect from slow to fast (random zones + random strobe)
230-255	Open

DMX CHANNEL	8	Parameter: DIMMER
DMX value		Function
000-007	Black-ou	t
008-255	Proporti	onal dimmer

DMX CHANNEL	9	Parameter: RED CENTRE
DMX CHANNEL	10	Parameter: GREEN CENTRE
DMX CHANNEL	11	Parameter: BLUE CENTRE
DMX CHANNEL	12	Parameter: WHITE CENTRE
DMX CHANNEL	13	Parameter: RED SECTOR 1
DMX CHANNEL	14	Parameter: GREEN SECTOR 1
DMX CHANNEL	15	Parameter: BLUE SECTOR 1
DMX CHANNEL	16	Parameter: WHITE SECTOR 1
DMX CHANNEL	17	Parameter: RED SECTOR 2
DMX CHANNEL	18	Parameter: GREEN SECTOR 2
DMX CHANNEL	19	Parameter: BLUE SECTOR 2
DMX CHANNEL	20	Parameter: WHITE SECTOR 2
DMX CHANNEL	21	Parameter: RED SECTOR 3
DMX CHANNEL	22	Parameter: GREEN SECTOR 3
DMX CHANNEL	23	Parameter: BLUE SECTOR 3
DMX CHANNEL	24	Parameter: WHITE SECTOR 3
DMX value		Function
000-255 E	Proportio	onal colour

DMX CHANNEL	25	Parameter: WHITE PRE-PROGRAMMED				
DMX value		Function				
000-055 N	o function					
056-105 E	Full (red-green-blue at full)					
106-155 M	White DTS					
156-205	Custom white create (RGB levels selectable by DMX)					
206-255 W	White CTC	C (channel 26 CTC enabled)				

DMX CHANNEL	26	Parameter: CTC (Colour temperature correction)				
IF CHANNEL 25 WHITE PRE-PROGRAMMED = WHITE CTC (DMX range value 206-255)						
DMX value	ue Function					
000-255 Linear control temperature correction (from 2700°K to 8000°K)						

DMX CHANNEL	27	Parameter:	MACRO	os				
DMX value				Fund	ction			
000-014	No funct	ion						
015-024	Macro 1	(static)						
025-034	Macro 2	(static)						
035-044	Macro 3	(static)						
045-054	Macro 4	(static)						
055-064	Macro 5	(static)						
065-074	Macro 6	(static)						
075-084	Macro 7	(static)						
085-094	Macro 8	(static)						
095-104	Macro 9	(static)						
105-114	Macro 10	(static)						
115-124	Macro 11	(static)						
125-134	Macro 12	(static)						
135-144	Macro 13	(static)						
145-154	Macro 14	(static)						
155-164	Macro 15	(static)						
165-174	Macro 16	(static)						
175-184	Rainbow	effect				(speed	l by chann	el 28)
185-189	All sect	ors dynamic e	ffect 1			(speed	l by chann	el 28)
190-194	All sect	ors dynamic e	ffect 2			(speed	l by chann	el 28)
195-199	All sect	ors dynamic e	ffect 3			(speed	l by chann	el 28)
200-204	All sect	ors dynamic e	ffect 4			(speed	l by chann	el 28)
205-209	All sect	ors dynamic e	ffect 5			(speed	l by chann	el 28)
210-214	All sect	ors dynamic e	ffect 6			(speed	l by chann	el 28)
215-219		ors dynamic e				(speed	l by chann	el 28)
220-224	All sect	ors dynamic e	ffect 8			(speed	l by chann	el 28)
225-229	All sect	ors dynamic e	ffect 9			(speed	by chann	el 28)
230-234	All sect	ors dynamic e	ffect 1	0		(speed	by chann	el 28)
235-239	All sect	ors dynamic e	ffect 1	1	EMPTY		l by chann	
240-244	All sect	ors dynamic e	ffect 1	2	EMPTY		l by chann	
245-249	All sect	ors dynamic e	ffect 1	3			l by chann	
250-255	All sect	ors dynamic e	ffect 1	4		(speed	by chann	el 28)

DMX CHANNEL 28		Para	ameter	î: 1	MACR	OS SP	EED CON	TROL					
Active onl	Ly if	MAC	ROS (channe	el :	27 b	etwee	n DMX v	alues	175-2	255		
DMX value							Func	ction					
	Rainbo	w ef:	fect	CH27 fr	om	175 t	to 184	Dynamic	Effect	CH27	from 1	85 to	255
000-014	Rainb	ow e	ffect	Speed	1	(4	sec)	Dynamic	Effect	Speed	1 (0,1	sec)
015-029	Rainb	ow e	ffect	Speed	2	(6	sec)	Dynamic	Effect	Speed	2 (0,2	sec)
030-044	Rainb	ow e	ffect	Speed	3	(8	sec)	Dynamic	Effect	Speed	3 (0,3	sec)
045-059	Rainb	ow e	ffect	Speed	4	(10	sec)	Dynamic	Effect	Speed	4 (0,4	sec)
060-074	Rainb	ow e	ffect	Speed	5	(15	sec)	Dynamic	Effect	Speed	5 (0,5	sec)
075-089				Speed		(20	sec)	Dynamic				0,6	sec)
090-104	Rainb	ow e	ffect	Speed	7	(30	sec)	Dynamic	Effect	Speed	7 (0,8	sec)
105-119	Rainb	ow e	ffect	Speed	8	(45	sec)	Dynamic	Effect	Speed	8 (1	sec)
120-134	Rainb	ow e	ffect	Speed	9	(60	sec)	Dynamic	Effect	Speed	9 (1,5	sec)
135-149	Rainb	ow e	ffect	Speed	10	(90	sec)	Dynamic	Effect	Speed	10 (2	sec)
150-164	Rainb	ow e	ffect	Speed	11	(120	sec)	Dynamic	Effect	Speed	11 (3	sec)
165-179	Rainb	ow e	ffect	Speed	12	(150	sec)	Dynamic	Effect	Speed	12 (5	sec)
180-194	Rainb	ow e	ffect	Speed	13	(180	sec)	Dynamic	Effect	Speed	13 (7	sec)
195-209				Speed		(210	sec)	Dynamic			•	10	sec)
210-224	Rainb	ow e	ffect	Speed	15	(240	sec)	Dynamic				15	sec)
225-239	Rainb	ow e	ffect	Speed	16	(270	sec)	Dynamic	Effect	Speed	16 (sec)
240-255	Rainb	ow e	ffect	Speed	17	(300	sec)	Dynamic	Effect	Speed	17 (30	sec)

DMX CHANNEL	29	Parameter:	FUNCTIONS	(Recall,	Create,	Store	custom white))
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IF CHANNEL 25 WHITE PRE-PROGRAMMED = CUSTOM WHITE (DMX range value 156-205)

11 OIIIIIIII 20 II	mill the thousand cooled while (bin lange value 100 200)
DMX value	Function
000-079	Custom White Recall
080-160	Custom White Create (Enable custom white creation)
161-255	Custom White Store (Store the custom white created)

DMX CHANNEL	30	Parameter: ZOOM CENTRE	
TE CHANNET, 32 70	OM MODE	C = INDEPENDENT ZOOM CONTROL (DMX range value 000-127)	

	con nose institute (sim range varae eee it,
DMX value	Function
000-255	ZOOM CENTRE Linear control from narrow to wide (3,5° - 52°)

IF CHANNEL 32 ZOOM MODE = GLOBAL ZOOM CONTROL (DMX range value 128-255)

DMX value	Function		
000-255	GLOBAL ZOOM (Zoom centre + Zoom sectors) Linear control from narrow to wide		
	(8° - 52°)		

DMX CHANNEL	31	Parameter: ZOOM SECTORS
IF CHANNEL 32 Z	OOM MODE	E = INDEPENDENT ZOOM CONTROL (DMX range value 000-127)

DMX value Function 000-255 ZOOM SECTORS Linear control from narrow to wide (8° - 52°)

IF CHANNEL 32 ZOOM MODE = GLOBAL ZOOM CONTROL (DMX range value 128-255)

DMX value	Function		
000-255	No function		

DMX CHANNEL	32	Parameter: ZOOM MODE	
DMX value	Function		
000-127	Independe	nt Zoom control: Zoom centre ch30 and Zoom sectors ch31 enabled	
128-255	Global Zo	om control on ch30 enabled; Zoom sectors ch31 disabled	

DMX CHANNEL	33	Parameter: SERVICE
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To activate following functions, stop in DMX value for at least 5 seconds. FUNCTION channel ch29 must be at range 161-255.

WHITE PRE-PROGRAMMED channel ch25 must be at range 000-055.

Corresponding	DISPLAY MENU settings, will be overwritten.			
DMX value	Function			
000-014	No Function			
015-024	SMOOTH OFF			
025-034	SMOOTH 4			
035-044	SMOOTH 8			
045-054	SMOOTH 15			
055-064	SMOOTH 20			
065-074	GAMMA CORRECTION QUADRATIC			
075-084	GAMMA CORRECTION LINEAR			
085-094	OUTPUT FREQUENCY 610 Hz			
095-104	OUTPUT FREQUENCY 1500 Hz			
105-114	OUTPUT FREQUENCY 3000 Hz			
115-124	OUTPUT FREQUENCY 6000 Hz			
125-134	OUTPUT FREQUENCY 9000 Hz			
135-144	BOOST ON			
145-154	BOOST OFF			
155-164	WIRELESS ON			
165-174	WIRELESS UNLINK			
175-184	WIRELESS OFF			
185-194	PAN NORMAL			
195-204	PAN REVERSE			
205-214	TILT NORMAL			
215-224	TILT REVERSE			
225-234	RESERVED			
235-244	Fans Speed Studio Mode(not yet implemented)			
245-255	Fans Speed Live Mode (not yet implemented)			

DMX CHANNEL	34 Parameter: RESET		
DMX value	Function		
000-015	No Funct:	on	
016-075	PAN-TILT reset		
076-135	ZOOM CENTRE reset		
136-200	ZOOM SECTORS reset		
201-239	ZOOM CENTRE + ZOOM SECTORS reset		
240-255	TOTAL reset		

DMX CHANNEL	35	Parameter: SHUTTER CENTRE
DMA CHANNEL	36	
		Parameter: SHUTTER SECTOR 1
	37	Parameter: SHUTTER SECTOR 2
	38	Parameter: SHUTTER SECTOR 3
DMX value		Function
000-009	Black-ou	ıt
010-019	Open	
020-029	Black-ou	ıt
030-034	Strobe s	speed 1 (1 flash/sec)
035-039	Strobe s	speed 2 (2 flash/sec)
040-044	Strobe s	speed 3 (3 flash/sec)
045-049	Strobe s	speed 4 (4 flash/sec)
050-054	Strobe s	speed 5 (5 flash/sec)
055-059		speed 6 (6 flash/sec)
060-064		speed 7 (7 flash/sec)
065-069		speed 8 (8 flash/sec)
070-074	Strobe s	speed 9 (10 flash/sec)
075-079	Strobe s	speed 10 (12 flash/sec)
080-084		speed 11 (14 flash/sec)
085-089	Strobe s	speed 12 (16 flash/sec)
090-094		speed 13 (18 flash/sec)
095-099		speed 14 (20 flash/sec)
100-104		speed 15 (22 flash/sec)
105-109		speed 16 (25 flash/sec)
110-114		speed 17 (30 flash/sec)
115-119		speed 18 (35 flash/sec)
120-179	Black-ou	
180-191	Random s	
192-229	Black-ou	ıt
230-255	Open	

NOTES

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The Lighting Company

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D.T.S. Illuminazione s.r.l. – Via Fagnano Selve 10-12-14 47843 Misano Adriatico (RN) Italia Tel.: +39 0541 611131. Fax + 39 0541 611111

info@dts-lighting.it www.dts-lighting.it